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**FROM: Winston Hsu, PATENT AGENT, REG. NO. : 41,526**

**SERIAL NO.: 10/707,561**

**ATTORNEY DOCKET NO.: LKSP0034USA**

**SUBJECT: INFORMATION DISCLOSURE STATEMENT**

**TOTAL PAGES: 22 PAGES (INCLUDING COVER PAGE)**

**Winston Hsu 2004/08/27**

**LKSP0034USA0\_D1\_1**

PTO/SB/97 (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

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APPLICATION NUMBER: 10/707,561

PAPERS INCLUDED:

(1) Transmittal Form	1 PAGE
(2) Fee Transmittal	1 PAGE
(3) Information Disclosure Statement	20 PAGES

This collection of information is required by 37 CFR 1.8. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing)	Application Number	10/707,561	
	Filing Date	12/22/2003	
	First Named Inventor	Mu-Jung Wu	
	Art Unit	2812	
	Examiner Name		
Total Number of Pages In This Submission	20	Attorney Docket Number	LKSP0034USA

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	Remarks	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Winston Hsu, Reg. No.: 41,526
Signature	<i>Winston Hsu</i>
Date	8/27/2004

CERTIFICATE OF TRANSMISSION/MAILING		
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.		
Typed or printed name		
Signature		Date

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PTO/SB/17 (10-03)

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**FEE TRANSMITTAL  
for FY 2004**

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$ ) 0.00**Complete if Known**

Application Number	10/707,561
Filing Date	12/22/2003
First Named Inventor	Mu-Jung Wu
Examiner Name	
Art Unit	2812
Attorney Docket No.	LKSP0034USA

**METHOD OF PAYMENT (check all that apply)**☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:

Deposit Account Number	50-3105
Deposit Account Name	North America Intellectual Property Corp.

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments☐ Charge any additional fee(s) or any underpayment of fee(s)☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
<b>SUBTOTAL (1)</b>			<b>(\$ ) 0.00</b>

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent Claims	-20** =	X	
Multiple Dependent	-3** =	X	

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1202 18	2202 9	Claims in excess of 20	
1201 88	2201 43	Independent claims in excess of 3	
1203 290	2203 145	Multiple dependent claim, if not paid	
1204 88	2204 43	** Reissue independent claims over original patent	
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent	
<b>SUBTOTAL (2)</b>			<b>(\$ ) 0.00</b>

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 420	2252 210	Extension for reply within second month	
1253 950	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 165	Notice of Appeal	
1402 330	2402 165	Filing a brief in support of an appeal	
1403 290	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,330	2501 665	Utility issue fee (or reissue)	
1502 480	2502 240	Design issue fee	
1503 640	2503 320	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1808 180	1808 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)** (\$ ) 0.00**SUBMITTED BY**

Name (Print/Type)	Winston Hsu	Registration No. (Attorney/Agent)	41,526	Telephone	886289237350
Signature	<i>Winston Hsu</i>			Date	8/27/2004

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PATENT  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Mu-Jung Wu, Ming-Yen Chung  
5 Filing Date: 12/22/2003  
APPL No.: 10/707,561  
Docket No.: LKSP0034USA  
Art Unit: 2812

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10 Title: Wafer Grinding Apparatus

To: Commissioner for Patents  
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Subject: Information disclosure statement under  
37C.F.R. §1.56 and 37C.F.R. §1.97(b).

Dear Sir:

20

This is an Information Disclosure Statement in accordance with the duty to disclose information material to patentability under 37 C.F.R. §1.56. The applicants wish to make of record the documents listed  
25 on the accompanying form PTO/SB/08. It is respectfully requested that the Examiner initials the cited references on the form and that it be made of record in the application and that a copy of the initialed form be sent to the applicants with the next  
30 communication from the Examiner.

Since the IDS is filed before the mailing date of

a first Office action on the merits, consideration of the information disclosure statement is hereby requested according to 37C.F.R.§1.97(b). The prior art patent contained in the information disclosure statement was cited in communications from the Taiwan Intellectual Property Office on June 21, 2004. The applicants sincerely hope that the Examiner can consider the item contained in the information disclosure statement.

10

According to the requirement set forth in 37C.F.R.§1.98 and M.P.E.P. 609, the applicants are submitting a copy of each of the cited references (Taiwan Patent No. 490359 and Japanese Patent No. 11-285967) and a concise explanation of the cited reference hereinafter.

Taiwan Patent No. 490359 discloses a method of grinding a semiconductor wafer using a grinding machine having a chuck table for holding a semiconductor wafer and a grinding means for grinding the top surface of a semiconductor wafer placed on the chuck table. The method comprises the step of holding the ground semiconductor wafer carried out from the chuck table after grinding by means of a wafer holding tray (Please refer to Fig.1 to Fig.6).

Japanese Patent No. 11-285967 discloses a washing water supply mechanism capable of supplying washing water to a surface of suction pad, and a supply nozzle capable of blowing pressured gas to the surface thereof for cleaning the surface of suction pad thereof (Please

refer to Fig.1).

Independent claim 1 of the present application is repeated here for reference:

5

1. A wafer grinding apparatus comprising:

a wafer-transporting device for transporting a wafer comprising:

10       at least a suction pad having a first surface  
and a second surface, the second surface  
being flexible for sucking the wafer; and  
a transporting mechanism connected to the  
first surface of the suction pad for  
transporting the wafer;

15       a first nozzle for ejecting a first liquid to the  
first surface of the suction pad for cleaning  
the first surface; and

20       a second nozzle for ejecting a second liquid to the  
second surface of the suction pad and the wafer  
for cleaning the second surface and the wafer.

Compared with Taiwan Patent No. 490359, the present application wafer grinding apparatus utilizes at least a suction pad, which is included in a wafer-transporting device of a wafer grinding apparatus, to transfer a wafer in the wafer grinding apparatus. On the other hand, Taiwan Patent No. 490359 utilizes a wafer holding tray to support a wafer and transfer the wafer out of a grinding apparatus.  
25  
30 Therefore, it is not able for the wafer holding tray to transfer wafers in the wafer grinding apparatus according to the method disclosed by Taiwan Patent No.

490359.

Compared with Japanese Patent No. 11-285967, the present application wafer grinding apparatus utilizes  
5 a second nozzle for ejecting a second liquid to a second surface of a suction pad and a wafer for cleaning the second surface and the wafer. Japanese Patent No. 11-285967 utilizes a washing water supply mechanism capable of supplying washing water to a surface of  
10 suction pad, and a supply nozzle capable of blowing pressured gas to the surface thereof for cleaning the surface of suction pad thereof. Therefore, it is not capable of cleaning a wafer by the device disclosed by Japanese Patent No. 11-285967.

15

Since claim 1 of the present application is substantially different from Taiwan Patent No. 490359, Japanese Patent No. 11-285967, and even the combination of Taiwan Patent No. 490359 and Japanese  
20 Patent No. 11-285967, and all other claims are dependent on claim 1, a quick allowance of the present application is sincerely requested.

25

30



Respectfully Submitted,

5 Winston Hsu

Date: 8/27/2004

Winston Hsu, Patent Agent

Registration No.: 41,526

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(Please contact me by e-mail if you need a telephone  
communication and I will return your call promptly)

15

PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

Sheet	1	of	1
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**Complete if Known**

Application Number	10/707,561
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Filing Date	12/22/03
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First Named Inventor	Mu-Jung Wu
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Art Unit	2812
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Examiner Name

Attorney Docket Number	LRSP0034USA
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## U. S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>6</sup> (# known)				
	1	TW 490359	06-11-2002			+
	2	JP 11-285967	10/19/1999	KIDA HIROAKI		+

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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